

IN THE
UNITED STATES PATENT AND TRADEMARK OFFICE

Inventor(s): Manish Sharma

Confirmation No.:

Application No.:

Examiner:

Filing Date:

Group Art Unit:

Title: Switching Of MRAM Devices Having Soft Magnetic Reference Layer

Commissioner for Patents
PO Box 1450
Alexandria, VA 22313-1450

INFORMATION DISCLOSURE STATEMENT

Sir:

This Information Disclosure Statement is submitted:

- ☒ under 37 CFR 1.97(b), or
(Within three months of filing national application; or date of entry of national application; or before mailing date of first office action on the merits; whichever occurs last)
- ☐ under 37 CFR 1.97(c) together with either a:
☐ Statement under 37 CFR 1.97(e), or
☐ a \$180.00 fee under 37 CFR 1.17(p), or
(After the CFR 1.97 (b) time period, but before final action or notice of allowance, whichever occurs first)
- ☐ under 37 CFR 1.97 (d) together with a:
☐ Statement under 37 CFR 1.97(e)(1) or (2), and
☐ a \$180.00 fee set forth in 37 CFR 1.17(p).
(Filed after final action, a notice of allowance, on or before payment of the issue fee)

Please charge to Deposit Account **08-2025** the sum of \$0.00. At any time during the pendency of this application, please charge any fees required or credit any overpayment to Deposit Account **08-2025** pursuant to 37 CFR 1.25.

☒ Applicant(s) submit herewith Form PTO 1449 - Information Disclosure Statement together with any required copies of patents, publications or other information of which applicant(s) are aware, which applicant(s) believe(s) may be material to the examination of this application and for which there may be a duty to disclose in accordance with 37 CFR 1.56.

☐ A concise explanation of the relevance of foreign language patents, foreign language publications and other foreign language information listed on PTO Form 1449, as presently understood by the individual(s) designated in 37 CFR 1.56 (c) most knowledgeable about the content is given on the attached sheet, or where a foreign language patent is cited in a search report or other action by a foreign patent office in a counterpart foreign application, an English language version of the search report or action which indicates the degree of relevance found by the foreign office is listed on form PTO 1449 and is enclosed herewith.

It is requested that the information disclosed herein be made of record in this application.

"Express Mail" label no. EV104130953US

Date of Deposit 2/11/04

I hereby certify that this is being deposited with the United States Postal Service "Express Mail Post Office to Addressee" service under 37 CFR 1.10 on the date indicated above and is addressed to: Commissioner for Patents, Alexandria, VA 22313-1450.

By

Typed Name: Tiffany Turner

Respectfully submitted,

Manish Sharma

By Brian R. Short

Brian R. Short

Attorney/Agent for Applicant(s)
Reg. No. 41,309

Date: 2/11/04

Sheet 1 of 1

FORM PTO-1449 LIST OF PATENTS AND PUBLICATIONS FOR APPLICANT'S INFORMATION DISCLOSURE STATEMENT (Use several sheets if necessary)	ATTY. DOCKET NO.	APPLICATION NO.	CONFIRMATION NO.
	APPLICANT Sharma		
	FILING DATE	GROUP	
	Herewith		

U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	PUBLICATION DATE	NAME	Pages, Columns, Lines Where Relevant Passages or Figures Appear
	1A	US5640343		Gallagher, et al	
	1B	US5224068		Miyake, et al	
	1C	US5396455		Brady, et al	
	1D	US5444651		Yananoto, et al	
	1E	US5761110		Irrinki, et al	
	1F	US5933365		Klersy, et al	
	1G	US5936882		Dunn	
	1H	US5953245		Nishimura	
	1I	US5956295		Yamakawa, et al	
	1J	US6016290		Chen, et al	
	1K				

		DOCUMENT NUMBER	PUBLICATION DATE	NAME OF PATENTEE OR APPLICANT	Pages/Columns/Lines Where Relevant Passages/Figures Appear	Check if Translation attached
	1L					
	1M					
	1N					
	1O					
	1P					

1Q	Hewlett-Packard published application number 20020089874, serial 758757, filed 1/11/01, Thermally-assisted switching of magnetic memory elements , Nikel, et al
1R	Hewlett-Packard published patent application number 20030123282, serial 315748, filed 12/10/02, Thermally-assisted switching of magnetic memory elements, nikel, et al
1S	Ryan, Mason & Lewis, LLP published patent application 20030198113, serial 128838, filed 4/23/02, Memory storage device with heating element , Abraham, David W. ; et al.

EXAMINER	DATE CONSIDERED
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